

Claims

1. A recombinant microorganism being capable of producing vitamin B<sub>6</sub>, wherein said microorganism carries extra genes which code for an enzyme combination selected from:
  - i) erythrose 4-phosphate dehydrogenase and 1-deoxy-D-xylulose 5-phosphate synthase;
  - 5 ii) erythrose 4-phosphate dehydrogenase and pyridoxol 5'-phosphate synthase; and
  - iii) erythrose 4-phosphate dehydrogenase, 1-deoxy-D-xylulose 5-phosphate synthase and pyridoxol 5'-phosphate synthase.
2. The microorganism according to claim 1, wherein said microorganism belongs to the genus *Escherichia*.
- 10 3. A process for preparing vitamin B<sub>6</sub> comprising the steps of:
  - i) culturing the recombinant microorganism of claim 1 in a fermentation broth; and
  - ii) separating the resulting vitamin B<sub>6</sub> from the fermentation broth.
4. A process for preparing vitamin B<sub>6</sub> comprising the steps of:
  - i) culturing a recombinant microorganism carrying an extra gene encoding erythrose 4-
  - 15 phosphate dehydrogenase in expressible form, in a fermentation broth; and
  - ii) separating the resulting vitamin B<sub>6</sub> from the fermentation broth.
5. The process according to claim 4, wherein said microorganism belongs to the genus *Escherichia*.
6. The process according to any one of claims 3 to 5, wherein said microorganism is cul-  
20 tured in a medium containing an assimilable carbon source, a digestible nitrogen source, inorganic salts, and other nutrients necessary for the growth of the microorganism at a pH value in the range of about 5.0 to 9.0, at a temperature in the range of from 10°C to 40°C, and for 1 day to 7 days under aerobic conditions.

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